

Title (en)
Image forming apparatus

Title (de)
Bilderzeugungsvorrichtung

Title (fr)
Appareil de formation d'images

Publication
EP 2546704 B1 20140827 (EN)

Application
EP 12175604 A 20120709

Priority
KR 20110068204 A 20110711

Abstract (en)
[origin: EP2546704A1] An image forming apparatus includes a main body (10), a document board (20) to open and close an upper side of the main body while being pivoted, and a shock absorber (40) to reduce impact generated when the document board closes the upper side of the main body, wherein the shock absorber includes a link (41) pivotably mounted, at a first end thereof, to the document board while guide protrusions (41a) are formed at a second end thereof, and a guide slot (42a) formed so that each guide protrusion is movable. Since the guide slot applies to the guide protrusion a pressure gradually increasing from the first end side of the guide slot to the second end side thereof, a speed of the guide protrusion and a pivoting speed of the document board are restricted below a certain speed when the upper side of the main body is closed through the document board.

IPC 8 full level
G03G 21/16 (2006.01)

CPC (source: EP KR US)
G03G 21/1628 (2013.01 - EP US); **G03G 21/1647** (2013.01 - EP US); **H04N 1/00519** (2013.01 - KR); **H04N 1/00525** (2013.01 - KR); **H04N 1/00549** (2013.01 - KR); **H04N 1/00551** (2013.01 - KR); **H04N 1/00554** (2013.01 - KR); **H04N 1/00557** (2013.01 - KR); **H04N 1/00559** (2013.01 - KR)

Cited by
CN106210395A; CN106210400A; CN106231154A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2546704 A1 20130116; **EP 2546704 B1 20140827**; KR 101783946 B1 20171011; KR 20130007721 A 20130121; US 2013014443 A1 20130117; US 8874000 B2 20141028

DOCDB simple family (application)
EP 12175604 A 20120709; KR 20110068204 A 20110711; US 201213540989 A 20120703